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APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/090,166	03/05/2002		Yoshimasa Sakata	Q68207	5464
23373	7590	07/29/2004		EXAMINER	
SUGHRUE	MION,	PLLC	HON, SOW FUN		
2100 PENNS	SYLVAN	IA AVENUE, N.W.			
SUITE 800				ART UNIT	PAPER NUMBER
WASHINGTON, DC 20037				1772	

DATE MAILED: 07/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	\leftarrow
		10/090,166	SAKATA ET AL.	ノ
Office Action Summary		Examiner	Art Unit	
		Sow-Fun Hon	1772	
Period fe	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address	
A SH THE - Exte after - If the - If NO - Failu Any	IORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Pensions of time may be available under the provisions of 37 CFR 1.13 of SIX (6) MONTHS from the mailing date of this communication. The period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period we use to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	nely filed s will be considered timely. the mailing date of this communicatio D (35 U.S.C. § 133).	on.
Status				
2a)⊠	Responsive to communication(s) filed on 29 Ag This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		s
Disposit	ion of Claims			
5)□ 6)⊠ 7)□ 8)□	Claim(s) 1-19 and 25 is/are pending in the appleada) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-19 and 25 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or ition Papers	vn from consideration.		
	The specification is objected to by the Examiner			
	The drawing(s) filed on is/are: a) acce		Vaminar	
٠٠,۵	Applicant may not request that any objection to the o			
	Replacement drawing sheet(s) including the correction		• •	d).
11)	The oath or declaration is objected to by the Exa		•	•
Priority u	ınder 35 U.S.C. § 119			
12)⊠ a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau see the attached detailed Office action for a list of	have been received. have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage	
Attachment	t(s)			
1) 🔲 Notic	e of References Cited (PTO-892)	4) Interview Summary (PTO-413)	
3) 🔲 Infom	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail Dai 5) Notice of Informal Pa 6) Other:	e	

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DETAILED ACTION

Response to Amendment

Withdrawn Objection

1. The objection to the abstract has been withdrawn due to Applicant's amendment dated 04/29/04.

Rejections Repeated

2. The 102(b) and 103(a) rejections are repeated for the same reasons previously of record in the Office action dated 01/29/04.

Response to Arguments

3. Applicant argues that in Tomohito, the constitution of the layers is: substrate/epoxy resin layer/mixed resin layer/reflective electrode, while the present claims contain a resin sheet layer comprising a hard coat layer and an epoxy resin layer, wherein the diffuser is localized in the epoxy layer.

Applicant is respectfully apprised that the features upon which applicant relies (i.e., the order of the layers with respect to each other and the other layers) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Tomohito has a resin sheet containing dispersed particles (particulate material) having an average particle diameter of between several 0.01µm (translated from several 10 nm) and several

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10μm (micrometers) (overlaps claimed range of 0.2 to 100 μm), in an epoxy resin layer (transparent layer 4) which comprises the particulate diffuser having a refractive index (high refractive index) different from that of the epoxy resin (low refractive index) [section 0051].

Tomohito teaches that the other resin phase separates from the matrix resin and forms particles (other resin condensed in the shape of a ball) which float to the surface (came floating in resin) and form a rough surface (the shape of toothing) [section 0033]. This is the same mixed resin which comprises transparent resin layer 4 [section 0051]. Applicant teaches that the diffuser is allowed to float in the epoxy resin in order to form the concentration distribution (specification, page 16, 4th paragraph). Thus the diffuser of Tomohito localizes so as to have a concentration distribution in the direction of the thickness of the epoxy resin layer as defined by Applicant.

Tomohito teaches a hard coat layer (hardened overcoat) on the transparent mixing layer 4 [section 0052].

4. Applicant argues that claim 1 calls for a reflecting layer comprising a thin metal layer [not taught by Tomohito].

Applicant is respectfully apprised that Tomohito teaches that the mixed resin layer 4 is formed on a thin metal layer (metal thin film) present as a reflecting layer (light reflex film) [section 0045].

5. Applicant argues that independent claim 7 calls for an inorganic barrier layer [not taught by Tomohito].

Applicant is respectfully apprised that Tomohito teaches that the mixed resin layer 4 is formed on a thin metal layer (metal thin film) present as a reflecting layer (light reflex film)

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[section 0045]. Aluminum is given as an example of a metal thin film with a thickness of 150 nm (1500 Angstrom) [section 0057]. Aluminum is inorganic, and also functions as a gas and moisture barrier layer (claim 7), with an oxygen permeability of 0.3 cc/m².24h.atm or less and moisture permeability of 10 g/ m².24h.atm or less, as evidenced by Nakamura et al.

Nakamura et al. teaches that aluminum film has oxygen permeability of 0.5 cc/m².24h.atm or less (abstract) which encompasses the claimed range of 0.3 cc/m².24h.atm or less (claim 5) and moisture permeability of 0.5 g/ m².24h.atm or less which is part of the claimed range of 10 g/ m².24h.atm or less (claim 14).

6. Applicant argues that independent claim 16 recites the presence of a gas barrier layer and a color filter layer [not taught by Tomohito].

Applicant is respectfully apprised that Tomohito teaches that the mixed resin layer 4 is formed on a thin metal layer (metal thin film) present as a reflecting layer (light reflex film) [section 0045]. Aluminum is given as an example of a metal thin film with a thickness of 150 nm (1500 Angstrom) [section 0057]. Aluminum is inorganic, and also functions as a gas and moisture barrier layer (claim 16), with an oxygen permeability of 0.3 cc/m².24h.atm or less and moisture permeability of 10 g/ m².24h.atm or less, as evidenced by Nakamura et al.

Nakamura et al. teaches that aluminum film has oxygen permeability of 0.5 cc/m².24h.atm or less (abstract) which encompasses the claimed range of 0.3 cc/m².24h.atm or less (claim 5) and moisture permeability of 0.5 g/ m².24h.atm or less which is part of the claimed range of 10 g/ m².24h.atm or less (claim 14).

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Tomohito teaches that a color filter layer (claim 16) is positioned under the epoxy resin layer [section 0050].

7. Applicant argues that the present application provides unexpectedly thin and lightweight liquid crystal displays with improved visibility, reduced yellowish tint and reduced glittering, mechanical strength, as compared to Tomohito.

Applicant is respectfully apprised that these features (i.e thickness, weight, visibility in terms of contrast ratio and resolution, small yellowness index change, glittering in terms of scattering ratio, heat resistance in terms of distortion, mechanical strength in terms of the various moduli) are not recited in the present claims, and that comparative data have not been presented.

8. Applicant argues that the present application comprises a filter which does not include a step in which a multilayer structure comprising a hard coat layer, gas barrier layer, and epoxy resin layer, is peeled from the substrate before a color filter layer is superposed thereon, thus reducing position shifting in the patterning for color filter formation, resulting in higher accuracy of [positioning].

Applicant is respectfully requested to cite the section of Tomohito which teaches that the multilayer structure is peeled from the substrate before the color filter layer is superposed thereon. Furthermore, a demonstration of unexpected results is needed to show that there is a difference between the two methods, in terms of the product.

Any inquiry concerning this communication should be directed to Sow-Fun Hon whose telephone number is (571)272-1492. The examiner can normally be reached Monday to Friday from 10:00 AM to 6:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon, can be reached at (571)272-1498. The fax phone number for the organization where this application or proceeding is assigned is (703)872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sow-Fun Hon

07/20/04

HAROLD PYON
SUPERVISORY PATENT EXAMINER 1/23/04